

**APPENDIX**

1. An adhesive composition, comprising:

a) a non-metallocene generated polyethylene selected from the group consisting of conventional-HDPE, conventional-LLDPE, conventional-VLDPE, LDPE, and a blend of any of these four,

b) from 5 to 35 weight percent, based on the total weight of a) plus b) plus c), of an acid-grafted metallocene polyethylene of those having a melt flow ratio of less than 6.53 and an Mw/Mn ratio of greater than the melt flow ratio less 4.63 and

c) optionally up to 30 weight percent of a hydrocarbon elastomer,  
the acid grafting agent being an unsaturated carboxylic acid or its derivative, selected from the group consisting of: acrylic acid; methacrylic acid; fumaric acid; anhydrides, metal salts, esters, amides or imides of the above acids, and the level of grafting being such that the total amount of grafting agent in the total composition a) plus b) plus c) is from 0.01 to 3 weight percent.

4. The composition of claim 3 wherein b) is less than 20 weight percent of the total composition, and the amount of grafting is from 0.05 to 0.25 weight percent of the total composition a) plus b) plus c).

5. A multilayer composite structure, comprising:  
at least two structural layers, wherein at least two of the at least two layers are adhered together with an adhesive layer having the composition of claim 1.

6. The multilayer structure of claim 5 wherein the adhesive composition is the composition of claim 3.

7. The multilayer structure of claim 5, wherein at least one layer is a barrier layer to oxygen, water, or both.

8. The multilayer structure of claim 7 which is a multilayer film, and wherein the structural and adhesive layers are co-extruded.

9. The multilayer structure of claim 7 wherein the barrier layer is selected from EVOH, polyamide, polyester, polyolefins, polystyrenes or ionomers.